# **Low Pass Filter**

### \*DC to 2500 MHz 50Q

# **Maximum Ratings**

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C
DC Current Input to Output	0.5A max. at 25°C

<sup>\*</sup> Passband rating, derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exce

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 10W
- temperature stable
- · low cost
- protected by U.S. Patent 6,943,646

## **Applications**

- harmonic rejection
- transmitters/receivers
- lab use

Generic photo used for illustration purposes only CASE STYLE: FF704

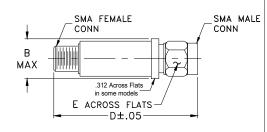
VLF-2500+

Connectors	Model
SMA	VLF-2500+

### +RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### **Outline Drawing**



# Outline Dimensions (inch )

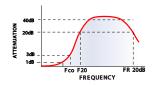
wt	Е	D	В
grams	.312	1.43	.410
10.0	7 92	36.32	10 41

# Electrical Specifications at 25°C

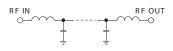
PASSBAND (MHz)	fco, MHz Nom.	STOP BAND (MHz) (loss, dB)		VSWR (:1)		NO. OF SECTIONS	
	(loss 3 dB)	f 20	30	fr 20	Stopband	Passband	
Max.	Тур.	Min.	Тур.	Тур.	Тур.	Тур.	
*DC-2400 (loss < 1 dB) *2400-2500 (loss < 1.2 dB)	3075	3675	3800-6100	8000	20	1.2	7

<sup>\*</sup> Not for use with DC voltage at input and output ports

# typical frequency response

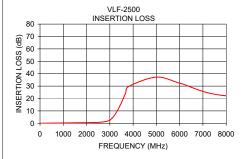


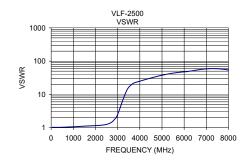
### electrical schematic



# Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.07	1.03
500	0.18	1.03
1500	0.38	1.11
2500	0.77	1.26
2900	1.77	1.91
3075	3.71	3.43
3250	7.85	7.25
3450	14.79	14.74
3675	24.24	20.95
3800	29.61	22.87
5000	37.24	37.77
6100	31.81	48.26
8000	22.21	54.29
15000	19.62	4.36
20000	15.64	13.29





A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp